



WESTERN ORE OPERATIONS
P. O. BOX 569
LANDER, WYOMING 82520

October 20, 1976

Mr. Ron W. Daniels
Coordinator Mined Land Development
Division of Oil, Gas and Mining
State of Utah
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Daniels:

Attached for your review and comment is a preliminary copy of our Notice of Intention to Continue Mining Operations at our Desert Mound mining location.

This copy has been slightly revised from the copy given you at our first meeting in your office Monday, September 27. We have not made any revisions in the Keigley Quarry application.

Yours very truly,

A handwritten signature in blue ink, appearing to read "John D. Quinn".

John D. Quinn
Chief Engineer
Western Ore Operations

JDQ/sd

Attachment

cc: R. R. Ross
N. I. Heaton
D. J. McDaniel



CIRCULATE TO:

DIRECTOR _____
PETROLEUM ENGINEER _____
MINE COORDINATOR _____
ADMINISTRATIVE ASSISTANT _____
ALL _____

RETURN TO

FOR FILING

PRELIMINARY

MINING APPLICATION

NO. _____

Date _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

CONTINUE

NOTICE OF INTENTION TO ~~COMMENCE~~ MINING OPERATIONS
(See Rule M of General Rules and Regulations)

1. Name of Applicant or Company United States Steel Corporation
Corporation (x) Partnership () Individual ()
2. Address 600 Grant Street, Pittsburgh, Pa. 15230
Permanent ~~Temporary~~
3. Name and title of person representing company R. R. Ross, General Superintendent
Western Ore Operations
4. Address U. S. Steel, P. O. Box 569 Office Phone (307) 332-4411
Lander, Wyoming 82520
5. Location of Operation Iron Sec. 2,19,30 T. 36 S. R. 13 W. SLB&M
County Homestake pit and dumps - proposed
6. Name of Mine Desert Mound Mine -- Mt. Lion Pit - existing.
7. Mineral to be mined: Mining method:

() Coal	() Flagstone	<u>Open pit</u>
() Copper	() Gravel	_____
() Manganese	() Shale	_____
(x) Iron Ore	() Uranium	_____
() Phosphate	() Gilsonite	_____
() Potash	() Bituminous Sandstone	_____
() Fluorspar	() Tungsten	_____
() Other (specify) _____		_____
8. Have you or any person, partnership or corporation associated with you received an approved Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein?
() Yes (x) No
If yes, list all approval numbers now under surety:

9. Owner/Owners of record of the surface area within the land to be affected:

<u>United States Steel Corporation</u>	Address <u>600 Grant Street</u> <u>Pittsburgh, Pa. 15230</u>
<u>Utah International, Inc.</u>	Address <u>550 California Street</u> <u>San Francisco, Ca. 94104</u>
<u>C.F.I. Steel Corporation</u>	Address <u>P. O. Box 316</u> <u>Pueblo, Co. 81002</u>
_____	Address _____

10. Owner/Owners of record of minerals to be mined:

United States Steel CorporationAddress 600 Grant Street
Pittsburgh, Pa. 15230C F & I Steel CorporationAddress P. O. Box 316
Pueblo, Co. 81002

Address _____

Address _____

11. Owner/Owners of record of all other minerals within any part of the land affected:

Not applicable

Address _____

Address _____

Address _____

Address _____

- 11a. Have the above owners been notified in writing?

() Yes

() No

Not applicable

12. Source of Operator's legal right to enter and conduct operations on land to be covered by the Notice
- Self Owned and lease agreements.

13. Approximate acreage to be disturbed: 550 Acres

Mining operation area (include operations, storage, and disposal area):

	<u>Presently</u>	<u>Future</u>		
	<u>300*</u>	<u>150</u>	acres +	450 acres
Access Road or Haulageway:	<u>60</u>	<u>0</u>	acres +	60 acres
Plant Facilities	<u>40</u>	<u>0</u>	acres =	40 acres
Drainage System:				
Total Acres:	<u>400</u>	<u>150</u>	acres	550 acres

*Approx. 100 acres disturbed by U.I.I. Mining operations - yet to be used for USS mining operations.

14. Give the names and post office addresses of every principal Executive, Officer, Partner, (or Person performing a similar function) of Applicant:

Name	Title	Address
a. <u>E. B. Speer</u>	<u>Chairman, Board of Dir.</u>	<u>600 Grant Street</u> <u>Pittsburgh, Pa 15320</u>
b. <u>C. F. Beukema</u>	<u>Vice President & Gen. Mgr.</u>	<u>" " "</u>
c. <u>R. R. Ross</u>	<u>Raw Materials & Lake Shipping</u>	<u>" " "</u>
	<u>General Superintendent</u>	<u>P. O. Box 569</u>
	<u>Western Ore Operations</u>	<u>Lander, Wyoming 82520</u>
d.		

15. Has Applicant, any Subsidiary or Affiliate or any Person, Partnership, Association, Trust or Corporation controlled by or under common control with Applicant, or any Person required to be identified by Item 14, ever had an approval of a Notice of Intention withdrawn or has surety relating thereto ever been forfeited? Yes () No (x)

STATE OF PENNSYLVANIA

COUNTY OF ALLEGHENY

I, C. F. BEUKEMA, having been duly sworn
depose and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the Applicant and this
application has been executed as required by law.

Signed: _____
Vice President & General Manager

Taken, subscribed and sworn to before me the undersigned authority
in my said county, this _____ day of _____, 19 ____.

Notary Public _____

My Commission Expires: _____

Date: _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

MINING AND RECLAMATION PLAN

(Other forms may be used in lieu of MRA 2, provided they contain the same information.)

1. Name of Applicant or Company United States Steel Corporation
2. Proposed type of operation Open Pit Iron Ore Mine
Pits and dumps area -- None
3. (a) Prior Land Use(s) Plant and Road area -- Minimum grazing
(b) Current Land Use(s) Open pit mining operations
Pits and dumps -- None
(c) Possible or Prospective Future Land Use(s) Plant and road -- Minimum grazing.
4. What vegetation exists on the land proposed to be affected _____
Pits and dumps area -- Juniper and Pinion Pine trees
Plant and road area -- Scrub brush and grass
(a) Types and Estimated Percent Cover or Density: _____
Pits and dumps area -- 50% tree cover, a little browse in between.
Plant and road -- 50% brush cover. Scattered grass between.
5. What is the range pH of soil before mining? Unknown pH.
Name of Person or Agency and method of determining pH None
Pits and dumps -- Sparce, rocky soil. Rocky sidehill area.
Plant and road -- Shallow rocky soil. Disturbed years ago.
Pits and dumps --average 6300 ft.,
6. Site elevation above sea level Plant and road -- average 5650 ft.
7. In case of coal, oil shale, and bituminous sandstone:
Principal seam(s) and thickness(es) None
8. Estimated duration of mining operations Approx. 15 years more.
9. Has overburden, waste or rejected materials been classified as acid or alkali producing? () Yes (x) No
Does the above material being moved have any other characteristics affecting revegetation? Rocky
10. Will any ~~underground workings or~~ aquifers be encountered? (x) Yes () No
Describe A little ground water encountered in "Entrada" and Iron Ore"
Is there an active discharge of water from abandoned deep mines on or crossing the land affected? () Yes (x) No If Yes, describe the quality of water being discharged. _____

11. Describe specifically a detailed procedure for:

See attached sheet.

- a. The mining sequence.
- b. The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
- c. The procedure for site preparation including removing trees and brush.
- d. The method for removing and stockpiling topsoil or disturbed materials.
- e. The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic material.
- f. A procedure for final stabilization of disturbed materials.

GRADING AND REGRADING (Not needed or possible)

There will be no vegetation loss, erosion, or hazards by letting nature take its course in this rocky, remote, arid area
Specifically describe:

- a. Typical cross-section of regrading.
- b. The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.
- c. What type of soil treatment will be utilized.
- d. The method of drainage control for the final regraded area.
- e. Maximum grading slope.

TESTING (Not needed or possible)

1. a. Describe method for testing stability of reclamation fill material.

b. Describe method for the testing of soil that is intended to support vegetation.

2. Describe any soil treatment employed as an aid to revegetation.

3. Describe surface preparation of areas intended to support vegetation:

REVEGETATION

There will be no vegetation loss, erosion, or hazards by letting nature take its course
1. Revegetation to be completed by: in this rocky, remote, arid area.

- | | |
|--------------------------------|--|
| () Operator | () Hydroseeding |
| () Soil Conservation District | () Aerial Seeding |
| () Private Contractor | () Conventional or Rangeland Drilling |
| () Other (Specify) _____ | () Other (Specify) _____ |

2. Will Mulch Be Used?

Type

No

Rate/Acre

None

lbs.

3. Revegetation Plan and Schedule -

	Species	Rate/ Acre	Planting Location	Facing N-S-E-W	Season to be replanted
1.	Thistles & weeds	Nature	All areas	All	By nature
2.	Rabbit brush	Nature	All areas	All	By nature
3.	Native grass	Nature	Road and Plant	All	By nature
4.	Juniper & Pinion trees	Nature	Mining area	All	By nature

4. Will affected area be subject to livestock or wildlife grazing? (x) Yes
() No Will vegetation protection be needed? _____

A few deer in all areas and a few cattle along main haulage road.

5. Will irrigation be used? () Yes (x) No Type _____

6. Describe maintenance procedures for revegetation if needed, until surety release is granted. Let nature take its course in these rocky, remote, arid areas.

I, the undersigned Operator, hereby submit this to be my Reclamation and Mining Plan for the area shown on the attached map. I further understand that the operation will be conducted in accordance with the Mined Land Reclamation Act of 1975, and all rules and regulations currently in effect thereunder.

Signed _____ Operator Date _____

Taken, subscribed and sworn to before me the undersigned authority in my said county, this _____ day of _____, 19 _____.

Notary Public _____

My Commission Expires: _____

UNITED STATES STEEL CORPORATION
Desert Mound Mine

Attachment for Mining Application

MRA--Form 2

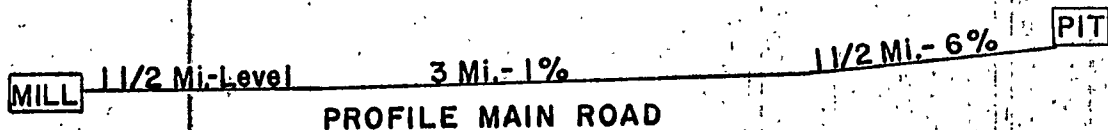
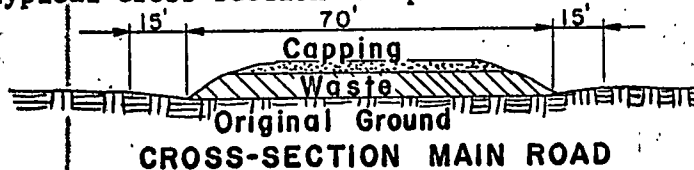
11. Describe specifically a detailed procedure for:

(a) Mining sequence (being done)

1. Drill Ore and waste blast holes with rotary drills.
2. Blast holes in ore and waste with ammonium nitrate.
3. Load ore and waste into haulage trucks with power shovels.
4. Haul waste to dumps with haulage trucks.
5. Haul ore to crushing plant with haulage trucks.
6. Crush and stockpile ore through crushing plant.
7. Reclaim and load ore into railroad cars through loading plant.

(b) Constructing and maintaining roads (Done years ago).

1. Build subgrade with on-site and pit-run waste material.
2. Cap with fines from site or from pits.
3. Maintain by continually grading and sprinkling.
4. Typical cross-section and profile - main haulage road.



(c) Site preparation (Done years ago).

1. Level off plant site and bring to grade.
2. Build access roads to proposed plant and pit area.
3. Remove trees from proposed pit areas.
4. Bring in powerlines to proposed plant and pit areas.

(d) Handling Topsoil (None to handle)

1. No topsoil in rocky mining operations area.
2. A little topsoil in haulage road and plant areas, but it was disturbed years ago and none saved.

(e) Handling Pit Waste (Being Done)

1. Dump waste from haulage trucks on edge of dumps.
2. Push waste over edge of dumps with tractor.

(f) Stabilizing Pit Waste (To be done)

1. Waste dumps are self stabilizing. No hazard.
2. Round-off dump crests with tractor when through in conformance with surrounding topography.

(g) Post Mining Operations (To be done)

1. Fence around accessible mining operation areas. (Has been done at Desert Mound and Iron Mt. areas.)
2. Push a rick of waste around the edge of pits with tractor.
3. Salvage and remove buildings and facilities.

RULE M-3

- (3) Statement giving general details of the type or method of mining existing and proposed.

The Desert Mound Mine has two adjacent ore bodies located six miles southwest along a gravel haulage road from the plant site; which is located twelve miles west of Cedar City.

The Mt. Lion ore body has an open pit mine in operation since 19 located on a rocky sidehill with no topsoil and originally partially covered with trees. The waste material is almost all rock and is dumped nearby.

The Homestake ore body will be an open pit mine sometime in the future, depending on iron ore requirements. It is located next to the Mt. Lion ore body under rock and a top layer of rocky alluvial. This alluvial has already been disturbed by Utah International, Inc., with their iron ore float salvage operations. The waste is almost all rock and will be dumped nearby with most of it going on ground already disturbed by Utah International, Inc.

The mining methods used, present and future, are:

1. Access roads built and test holes drilled.
2. Pit plans made and trees cleared.
3. Haulage roads and railroads built.
4. Plant facilities and power lines built.
5. Blast holes drilled in ore and waste with rotary drills.
6. Blasts in ore and waste shot down with ammonium nitrate.
7. Ore and waste loaded into haulage trucks with power shovels.
8. Waste hauled to dumps with haulage trucks.
9. Ore hauled to crushing plant with haulage trucks.
10. Ore crushed and stocked through crushing plant.
11. Ore reclaimed and loaded in railroad cars through loading plant.